

Claims

1. A method of optimizing soft handover between RNCs (Radio Network Controllers), comprises steps of:
 - a. according to the measurement control information provided by a corresponding SRNC of a Node B to which a UE currently belongs, measuring signals of co-frequency neighbor cells by the UE to obtain a measuring result; reporting the measuring result to said SRNC by the UE;
 - b. making a handover decision according to said measuring result by said SRNC, and determining whether to make a soft handover; if not, then continuing to make handover decision; if yes, then determining whether said SRNC has right to dispatch common resources of a target Node B to which said the current UE is to handover;
 - c. if yes, applying for required common resources to a specific functional entity that controls said common resources of said target Node B by said SRNC, and then going to Step d; if not, then initiating a soft handover between RNCs, and ending; and
 - d. according to status of current use of common resources of said target Node B, responding whether said common resources are available by said specific functional entity, if yes, then establishing a connection between said SRNC and said target Node B by said SRNC, and initiating a soft handover within RNC, otherwise, initiating a soft handover between RNCs.
2. The method according to Claim 1, wherein the measuring result in step b is a signal strength measuring result.
3. The method according to Claim 1, wherein the measuring result in step b is a bit error rate measuring result.
4. The method according to Claim 1, wherein the measuring result in step b is a signal-interference ratio measuring result.
5. The method according to Claim 1, wherein the specific functional entity is a logical functional entity within said target Node B.

6. The method according to Claim 1, wherein the specific functional entity is a logical functional entity in a network server.

7. The method according to Claim 1, wherein said status of current use of common resources of said target Node B in step d is obtained according to whether there are idle common resources in target Node B.

8. The method according to Claim 1, wherein said initiating a soft handover between RNCs further comprises:

setting the currently corresponding RNC of said target Node B as a DRNC,

establishing a link between said SRNC and said DRNC, and
making a soft handover between said SRNC and said DRNC.

9. The method according to Claim 1, further comprises:

retrieving the corresponding common resources by said target Node B, when a soft handover has been completed, and said connection between SRNC and target Node B needs to be disconnected.